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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/652,329	08/29/2003	Jason F. Hunzinger	4041A-000008	1641
27572	7590	06/15/2005	EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			LOUIS JACQUES, JACQUES H	
		ART UNIT	PAPER NUMBER	3661
DATE MAILED: 06/15/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/652,329	HUNZINGER, JASON F.	
	Examiner	Art Unit	
	Jacques H Louis-Jacques	3661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 29 August 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-26 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.



DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakano et al [6,636,802].

Nakano et al '802 discloses a data structure of digital map file and methods for identifying road sections (areas) in a navigation database, applying an update to the navigation database, and generating a database renewal (update) for the navigation database based on road intersections forming by at least two nodes and a link. See figures 6, 9, 11, 36, and 37. According to Nakano et al, there is provided receiving a database update identifying at least one road intersection (cartographic file), constructing a logical representation (connections of roads between its units and a neighboring unit) of the road topology surrounding the at least one road intersections, and identifying (tracing) the at least one road intersection in the navigation database by comparing (matching) the logical representation to a logical representation of the navigation database. See abstract, figures 1, 26-28, 30-32, 38, 40-41.

According to Nakano et al, constructing the logical representation comprises building a graph representing the road topology in the vicinity of the at least one road intersection,

where nodes of the graph represent road intersections and links of the graph represent road segments. See figures 6, 9, 11, 26, and 36-37. Additionally, Nakano et al discloses an attribute (records) associating with the at least one road intersection, wherein the attribute is used to identify the at least one road intersection in the navigation database (abstract, figures 6, 23-24, 27, and 30-32), wherein at least one road segment having an attribute is identified, and the attribute of the at least one road segment is used to identify the at least one road intersection in the navigation database (abstract, figures 24, 27, 28, and 30-32, columns 1, 2, 4, and 23-24).

In addition, Nakano et al discloses that constructing the logical representation comprises building a tree graph to represent the road topology surrounding the at least one road intersection, where nodes of the tree graph represent road intersections and links of the tree graph represent road segments (figures 5, 37, column 15). Furthermore, Nakano et al discloses that the at least one road intersection serves as a root node for the tree graph (columns 15 and 16). Nakano et al further discloses identifying the at least one road intersection based on a spanning tree matching operation (columns 25 and 26). Nakano et al also discloses selecting candidate road intersections in the navigation database based on proximate location to the at least one road intersection, prior to comparing (matching) the logical representation to a logical representation of the navigation database (columns 2, 27-28, and 40-41). Also, Nakano et al discloses that the depth of the tree graph is based on a probability of number of road segments meeting at one or more road intersection represented by the tree graph (columns 27 and 28 and figures 26-28). The depth of the tree graph, according to Nakano et al, is determined to be a minimum depth required for

the tree graph to uniquely identify the at least one road intersection (columns 26-28). Still according to Nakano et al, there is provided applying the database update to the identified road intersection in the navigation database and formulating a patch indicative of the database update in relation to the navigation database (columns 1, 50-51 and figure 51). Nakano et al discloses an update instruction by specifying two nodes and a link, wherein the nodes represent road intersections and the link represents a road segment interconnecting the two nodes, and wherein an existing node in the navigation database is identified as one of the specified nodes based on a logical pattern matching operation and the update instruction is applied in accordance with an ordered operations rule set (columns 19-20, 26-28).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

5,953,722	Lampert et al	Sep. 1999
6,038,559	Ashby et al	Mar. 2000
6,507,850	Livshutz et al	Jan. 2003
6,643,584	Ikeuchi et al	Nov. 2003
6,678,611	Khavakh et al	Jan. 2004
6,704,649	Miyahara	Mar. 2004
6,728,633	Mikuriya et al	Apr. 2004
6,853,913	Cherveny et al	Feb. 2005

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US 20030220735	Nimura	Nov. 2003
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US 20040205517	Lampert et al	Oct. 2004
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US2004/0039524	Adachi	Feb. 2004
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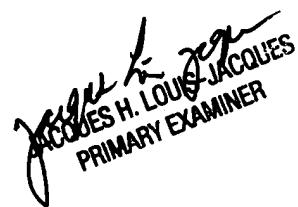
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacques H Louis-Jacques whose telephone number is 571-272-6962. The examiner can normally be reached on M-Th 5:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on 571-272-6956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jacques H Louis-Jacques
Primary Examiner
Art Unit 3661

/jlj



JACQUES H. LOUIS-JACQUES
PRIMARY EXAMINER